



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

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Michael O. Leavitt
Governor

Lowell P. Braxton
Division Director

November 12, 1998

Brent Sumsion
Valley Asphalt, Inc.
7434 South Delmonte Road
Spanish Fork, UT 84660

Re: Notice of Tentative Approval to Commence Large Mining Operations, Valley Asphalt, Inc.,
Lehi Quarry, M/049/031, Utah County, Utah

Dear Mr. Sumsion:

The Division has completed a review of your August 14, 1998 response to the Division's April 21, 1998 deficiency review letter. Your original large mining permit application was received June 10, 1997. We find the latest information sufficient to satisfy the outstanding technical deficiencies. The Division hereby grants tentative approval of the Lehi Quarry large mining permit application.

We will now publish a formal notice of tentative approval in the Salt Lake, Provo and American Fork newspapers which will begin a 30-day public comment period. If no substantive comments are received during the comment period, the Division will then be prepared to issue final approval of this project following receipt of your reclamation surety. The attached review comments are forwarded to provide clarification to our review of your latest deficiency response. If you disagree with our latest assessment and findings please notify us in writing before the public comment period ends.

If you have any other questions in this regard please contact either me, Tony Gallegos, or Lynn Kunzler, of the Minerals Staff. Thank you for your continued cooperation and patience in completing this permitting action.

Sincerely,

D. Wayne Hedberg

Permit Supervisor

Minerals Regulatory Program

jb

Enclosures: Review Comments, Revised Surety Estimate, Form MR-RC

cc: Arjun Ram, Western Aggregates Holding Corp. *w/enc*

John Blake, SITLA *w/enc*

Buck Rose, Utah County

Mary Ann Wright, DOGM

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LARGE MINE TECHNICAL REVIEW COMMENTS
VALLEY ASPHALT, INC.
LEHI QUARRY
M/049/031
November 6, 1998

R647-4-112 - Variance

Variances were requested from Rules R647-4-111.12 *Topsoil Redistribution*, and R647-4-111.13 *Revegetation*, for the final benches and highwall areas. This amounts to 16.5 percent of the total disturbed acreage. These areas will be steep (approximately 45°) and solid rock. Benches will be narrow (20 feet wide) which does not allow for safe operation of equipment for spreading topsoil or seeding. For these reasons, the Division hereby approves the requested variances for the final highwall and bench areas.

R647-4-113 - Surety

On November 4, 1998, the line items in the proposed reclamation surety estimate were discussed over the telephone with Arjun Ram. As a result of that discussion several line items in the surety estimate were revised by the Division. The significant changes and justification for these changes are described below. A copy of the Division's revised surety estimate is attached. The current amount of reclamation surety proposed by the Division is \$431,600. This figure includes escalation to year 2003 dollars. (AAG)

Line Item Changes:

- (A) A line item for the demolition of concrete foundations was added and the line item for demolition of facilities was deleted. According to Mr. Ram, the majority of structures and facilities will be skid or wheel mounted. An figure of 10,000 square feet of reinforced concrete for the asphalt storage silos was estimated by Mr. Ram.
- (B) The response did not include a detailed description of the plant structures and facilities. Mr. Ram indicated the plant structures and facilities would have a residual value which would exceed the costs of demolition or salvage. For this reason, a line item for loading of equipment and facilities onto trucks for removal was added and the line item for debris removal was deleted. The number of trucking trips was estimated as crushers & screens (2 trips), conveyors & stackers (3 trips), loaders & dozers (2 trips), asphalt plant drum drier (1 trip), asphalt storage bins (2 trips), fuel storage tanks (2 trips), asphalt loadout silo (1 trip).
- © Ripping the quarry area was considered impractical since the quarry floor will be in bedrock.
- (D) The linear footage for safety fencing around the highwall sections was estimated from the revised map as: north edge (2,560 ft), west edge (2,140 ft), south edge (0 ft), east edge (1,040 ft). Berms will need to be adjusted to reflect the revised final quarry configuration.
- (E) The linear footage of drainage reconstruction was based on the assumption that two drainage routes may need to be reconstructed across portions of the site.

- (F) The line items for topsoil handling were adjusted to reflect haulage by a scraper and spreading by a dozer. Scraper haulage was selected because of a lower unit cost compared to using a front end loader and truck combination.
- (G) The unit cost for equipment mobilization was reduced due to major city centers located within 50 miles or less of the operation. The number of equipment mobilized was increased to reflect a probable fleet of 1 dozer, 1 front end loader, 1 flatbed highway hauler truck, 1 dump truck, and 2 scrapers.
- (H) The number of days of reclamation supervision was increased to 15 days based on a rough estimate of the site reclamation.

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1	RECLAMATION SURETY ESTIMATE				
2	Valley Asphalt, Inc.				last revision <u>11/06/98</u>
3	Lehi Quarry				filename: m49-31tg.wb2
4	M/049/031				page "ESTIMATE"
5	Utah County				
6	Prepared by Utah State Division of Oil, Gas & Mining				
7	-This is a revised version of Valley Asphalt's estimate in the August 14, 1998 response				
8	-This estimate is based on the reclamation plan from the response received Aug. 14, 1998				
9	-Most equipment is skid or wheel mounted except for asphalt storage bins with reinforced concrete				
10	-All structures & facilities to be removed or demolished; concrete foundations demolished				
11	-Skid or wheel mounted facilities to be trucked off site				
12	-Top soil from Berm area will be spread & additional topsoil will be trucked in as needed				
13	-A minimum of 6" of topsoil to be spread in the berm area & operations area & then seeded				
14	-A minimum of 12" of topsoil to be spread in the pit bottom area & then seeded				
15	-Paved road entrance to be ripped & a minimum of 6" of topsoil to be spread & then seeded				
16	-Three phases of mining have now been replaced by one phase				
17	-Acreage: berm area 9.7, asphalt crushing & yard 16.0, excavation 95.3, road 0.57, highwall 24.0				
18	-The highwall area (24.0 acres) will not be topsoiled or seeded - variance				
19	Note: actual unit costs may vary according to site conditions last unit cost update 10/12/98				
20	-Amount of disturbed area which will receive reclamation treatments =				121.6 acres
21	-Estimated total disturbed area for this mine =				145.6 acres
22	Activity	Quantity	Units	\$/unit	\$
23	Safety signs, etc. (mtls & installation)	1	sum	500	500
24	Demolition of concrete foundations	10,000	SF	6.06	60,600
25	Equipment removal - loading & trucking	13	trips	530	6,890
26	Debris & equipment removal - dump fees	10	ton	50	500
27	Debris removal - loading trucks w/FE loader	4	hours	170	680
28	Demolition & debris removal - general labor	32	hours	15	480
29	Ripping "facilities area"	8.0	acre	581	4,648
30	Installing safety fencing around highwalls	5,740	LF	1.00	5,740
31	Ripping asphalt access road - dozer	0.6	acre	581	349
32	Surface drainage restoration - undocumented	1,800	LF	0.20	360
33	Topsoil replacement - dozer spreading	174,942	CY	0.20	34,988
34	Topsoil replacement - scraper haulage	174,942	CY	1.08	188,937
35	Fertilizing (100 lb/acre diammonium phosphate)	121.6	acre	90	10,944
36	Drill seeding (~13 lb/acre)	121.6	acre	220	26,752
37	General site cleanup & trash removal - yard 50%	8.0	acre	50	400
38	Equipment mobilization	6	equip	500	3,000
39	Reclamation Supervision	15	days	363	5,445
40		Subtotal			351,213
41	10% Contingency				35,121
42		Subtotal			\$386,335
43	Escalate for 5 years at 2.24% per yr				45,252
44		Total			\$431,587
45		Rounded surety amount in yr 2003-\$			\$431,600
	Average cost per disturbed acre =			\$2,964	

Note
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44		Rounded surety amount in yr 2003-\$	\$431,600
45	Average cost per disturbed acre =	\$2,964	

RECLAMATION SURETY ESTIMATE

Valley Asphalt, Inc.

Lehi Quarry

M/049/031

last revision

11/06/98

filename: m49-31tg.wb2

page "ESTIMATE"

Utah County

Prepared by Utah State Division of Oil, Gas & Mining

Note	
(1)	DOGM lump sum assumed
(2)	Means Heavy Construction Cost Data 1998, 020-75004440, concrete removal, floors, 6" thick, reinforced rods +20% heavy reinforce
(3)	DOGM estimate taken from similar operation - file M/035/012
(4)	Means 1998, 020-612-0100, bldg construction mtls
(5)	Rental Rate Blue Book 4/98, Cat 988B, 7CY, & Means 1998, Crew B-10U
(6)	DOGM assumed wage for unskilled general labor
(7)	Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, multi shank rippers, speed 0.5 mph
(8)	DOGM general estimate for field fence, 4 strand barbwire
(7)	Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, multi shank rippers, speed 0.5 mph
(9)	Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, mtl 2550 lb/CY, 50 ft push, avg vol 1.0CY/LF- assumed
(10)	Means 1998 & Rental Rate Blue Book 4/98: Cat D10N, U, mtl 2550 lb/CY, 50 ft push
(11)	Means 1998 & Rental Rate Blue Book 4/98: Cat 627F P-P, mtl 2550 lb/CY, 2,000 ft haul one-way, grade +/- 4%,
(00)	DOGM general estimate - fertilizing
(00)	DOGM general estimate - drill seeding
(00)	DOGM general estimate - site cleanup & trash removal
(00)	DOGM general estimate - equipment mobilization 50 miles or less
(12)	Means 1998, 010-036-0180, project manager, minimum \$1,815/wk